

## HIGH-DENSITY, MINIATURIZED ARRAYS AND METHODS OF MANUFACTURING SAME

### Abstract of the Disclosure

High-density, miniaturized arrays including high surface areas. Arrays  
10 described include substrate with a coating of linking agents, as well as arrays with  
reactants affixed to the substrates. Methods of manufacturing high-density arrays  
of reactants. The methods include the use of oriented, heat shrink films and  
elastomeric materials. Methods of functionalizing a substrate with linking agents  
for subsequent affixation of reactants are also disclosed herein.